PINPOINT 5000 Advanced

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Model 313

Combined Transmitter Test Station & Energizer User Manual

Version:	1
Created:	15/08/12

Introduction

The Combined Transmitter Test Station & Energizer (TTSE) is a unit designed to 'energize' or recharge the Perpetual PIT (Product code 312 series), which is a rechargeable Personal Infrared Transmitter for use with the Pinpoint Advanced Staff Personal Alarm System and also to test the PITs after they have been energized to ensure that they are functioning correctly. It can also detect faults in any Perpetual PIT attached to it.

There are two separate and distinct sections of the unit - an energizing section and a testing section. The energizing section is mounted on the front of the testing section (see photograph above).

The Perpetual PIT **must** be energized at the start of a shift and also after any emergency (only) activation of the PIT.

Please do not attempt to charge anything other than a Perpetual PIT with the TTSE unit, as damage to the unit will occur, and there will be a fire risk.

Please read this manual fully, including the Troubleshooting section, before using the TTSE unit.

Preparing the TTSE for use

1. Remove the unit from its packaging.
2. Plug the mains adaptor into a mains socket. Plug the other end of the lead, with the correct DC power connector, into the metal socket in the centre of the back of the unit, as shown on the right.
3. Turn the mains power on. The two LEDs on the front of the unit on the Energizer section will light orange and the two LEDs on the top of the unit will also briefly illuminate. The unit will sound a short 'beep', indicating that the unit is now ready to charge.

Operation

Energizing the Perpetual PIT

4. The Perpetual PIT **must** be energized at the start of a shift and also after any activation of the PIT in an emergency.
5. Attach one or two Perpetual PITs to the unit by plugging a lead from the Energizer unit into the socket on the side of each PIT.
6. Press the white button on the front of the Energizer to start the charging process.

Normal Operation

7. If the PIT is in good order, the LED corresponding to it will flash green during the charging period. The PIT is fully charged when the LED ceases to flash and shows a constant green; this will happen up to 20 seconds after the start of charging.
8. When the LED shows a constant green light, the fully-charged Perpetual PIT may be removed from the Energizer. When all PITs have been disconnected from the Energizer, it will automatically reset and will sound a short beep, showing two orange lights to indicate that it is ready to charge.

LED Indicators

9. In the event of a fault being detected in a PIT attached to the Energizer, the corresponding LED will indicate the fault. The table below shows the LED colours and the status indicated by them.

LED colours	**Status of charging circuit**
Orange	Ready to charge
Flashing green	Charging in progress
Green	PIT is fully charged
Flashing orange	No PIT connected
Red Flashing red and orange	Fault detected in PIT

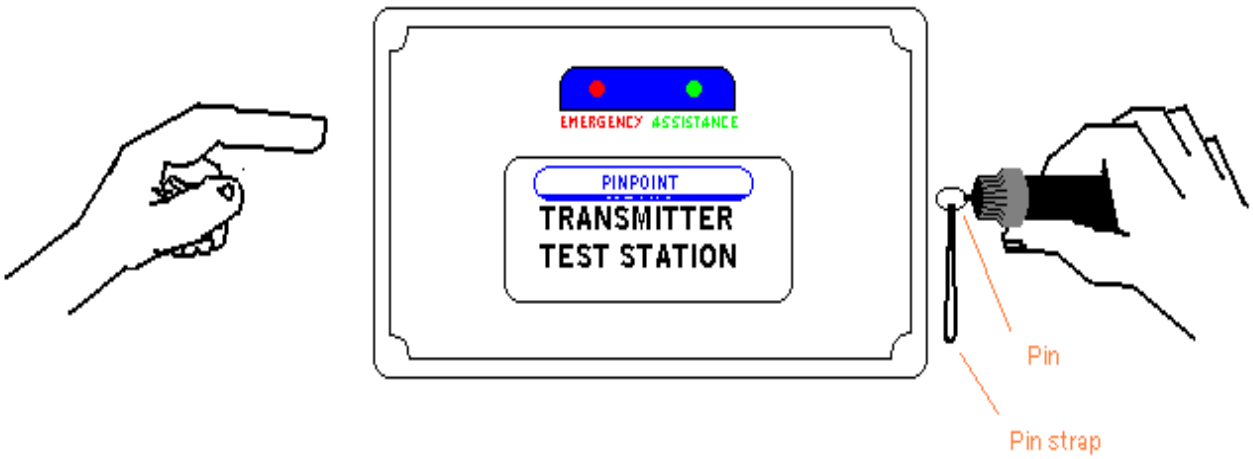
10. If the LED flashes red and orange while charging a PIT, unplug the PIT from the Energizer. Wait until any other PIT also attached to the Energizer has finished charging, then plug the PIT back in to the Energizer and press the white button on the front of the Energizer to start the charging process again. If the LED corresponding to this PIT still flashes red and orange when charging, there is a fault in the PIT. Remove it from the Energizer, take it out of service and return it to Pinpoint Limited for repair.

Note: the Energizer can charge up to two Perpetual PITs simultaneously. The two charging circuits are independent of each other, and the status of each circuit is shown by the corresponding LED. For example, if there is a fault on one charging circuit, and a normally charged PIT on the other, one LED will be red and the other green. If only one PIT is being charged, the LED corresponding to the lead that is disconnected will flash orange throughout the charging process.

Troubleshooting the Energizer Section of the TTSE

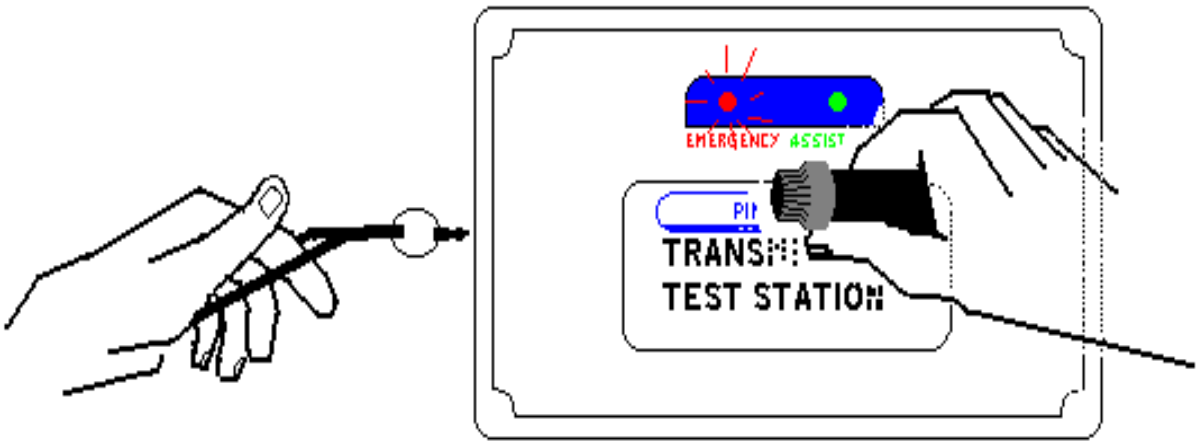
Fault symptoms	Remedy
No orange lights appear on the unit after plugging it into the mains socket.	Check that the adaptor is connected to a mains plug which has been switched on. Check that the DC plug is pressed fully into the socket on the Energizer and is making good contact.
No Perpetual PITs are connected to the unit, but the Energizer does not automatically reset, sound the buzzer or show the orange 'Ready' light.	Check that the plug on the end of the lead is in free air and is not making contact with anything else.
An LED on the front of the unit is flashing orange and red when charging a Perpetual PIT.	Unplug the PIT from the Energizer. Wait until any other PIT also attached to the Energizer has finished charging, then plug the PIT back into the Energizer and press the white button on the front of the Energizer to start the charging process again. If the LED corresponding to this PIT still flashes red and orange when charging, there is a fault with the PIT. Remove it from the Energizer, do not use it and return it to Pinpoint Limited for repair. See below for address details.
An LED on the front of the unit is showing a constant red when charging a Perpetual PIT.	There is a fault with the Perpetual PIT – remove it from the Energizer, do not use it and return it to Pinpoint Limited for repair. See below for address details.

TRANSMITTER TEST STATION SECTION



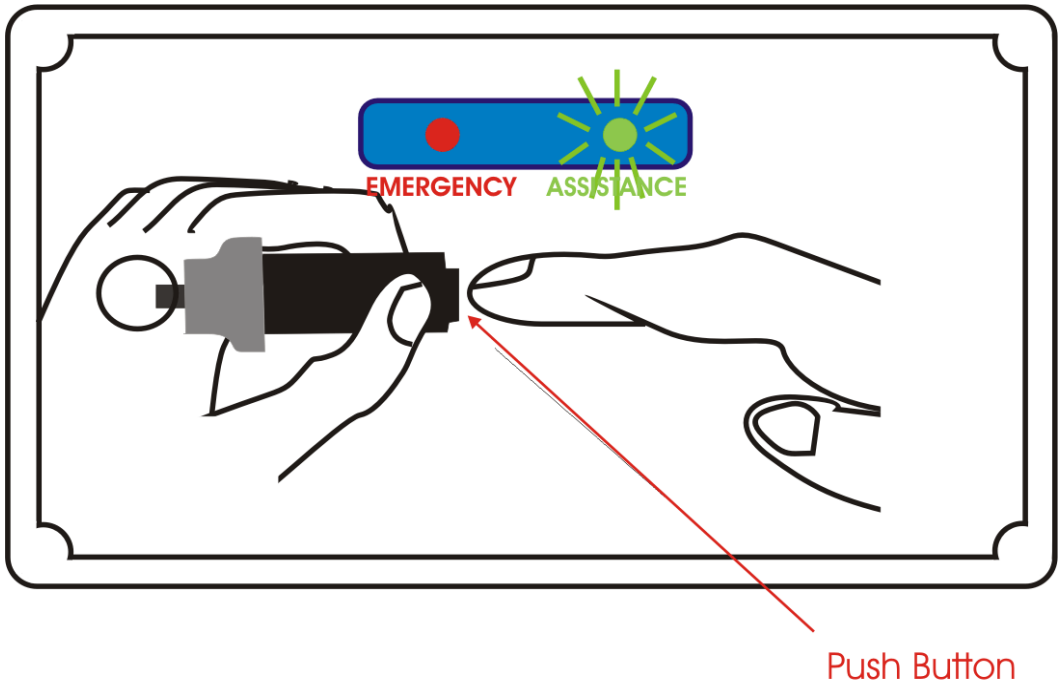
The Transmitter Test Station section of the TTSE allows you to test your energized PIT after it has been charged. Do not test before energizing.

You can test both operations of a PIT, the emergency pull and the push button on the base. The red light will illuminate when you test the emergency pull. Depending on which type of PIT you are testing, and which code operates when you press the button on the base of the PIT, either the green or the red light or neither will illuminate. The green light will illuminate if the button is programmed for an assistance call, the red light, if the button is programmed for an emergency call and neither light if the button does not have a function. The function of the button was chosen by you when the PIT was purchased.



The PIT must be held inside the Test Station box. Hold the PIT firmly in one hand (do not cover the pin strap end) and pull the pin strap with the other. The buzzer will sound and the EMERGENCY red light will illuminate. Replace the pin in the PIT **WHILST STILL IN THE TEST STATION BOX.**

Should you wish to check the functioning of the button on the base, then push the button making certain that no part of the top of the PIT is covered by your hand. Hold inside as shown below.



The PIT will need to be recharged using the Energizer section of the TTSE in the following conditions:

If the red or green lights illuminate and the buzzer sounds only if the PIT is positioned centrally in the box.

If the buzzer sounds infrequently but the lights do not illuminate.

If the lights do not illuminate and the buzzer does not sound at all when the PIT is activated (and the Test Station has been switched on correctly.

The PIT may need to be repaired if using the Energizer section does not result in an improvement in performance.

Please contact Pinpoint Limited in the event of any problem occurring with the TTSE, using the details below:

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